

# GSLV-F11/GSAT-7A

# THE MISSION



- India's Geosynchronous Satellite Launch Vehicle (GSLV) – F11 will place 2250 kg GSAT-7A into a Geosynchronous Transfer Orbit
- GSLV-F11 will be launched from the Second Launch Pad (SLP) at Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota
- GSAT-7A is a geostationary communication satellite of India

#### TARGETED GEOSYNCHRONOUS TRANSFER ORBIT

Perigee	;	170 ± 3 km
Apogee	:	33,190 to 40,600 km
Inclination	4	19.35 ± 0.1 degree



## 69th

Launch Vehicle Mission from SDSC SHAR

#### 39th

Communication Satellite of ISRO

#### 13th

Flight of GSLV Mark II

#### 7th

Launch of 2018 from SDSC SHAR

#### 7th

Flight of GSLV Mark II with indigenous cryogenic upper stage

## **Payload Fairing**

Diameter: 3.4m

## Third Stage

#### GS3 (CUS15)

Height: 9.894m Diameter: 2.8m

Propellant: LH2 & LOX

#### First Stage

 $GS1 (S139 + 4 \times L40H)$ 

#### **S139**

Height: 20.176m Diameter: 2.8m Propellant: HTPB

### Liquid strap-ons(4 x L40)

Height: 19.682m Diameter: 2.1m

Propellant: UH25 & N<sub>2</sub>O<sub>4</sub>

#### **GSAT-7A**

Mass: 2250 kg

## Second Stage

#### GS2 (GL40)

Height: 11.938m

Diameter: 2.8m

Propellant: UH25 & N<sub>2</sub>O<sub>4</sub>

# THE SATELLITE

- GSAT-7A is a geostationary satellite built to provide communication services in Ku-band over the Indian region
- GSAT-7A is configured using ISRO's 2000 kg satellite bus (I-2K bus)

#### SALIENT FEATURES

Lift-off Mass : 2250 Kg

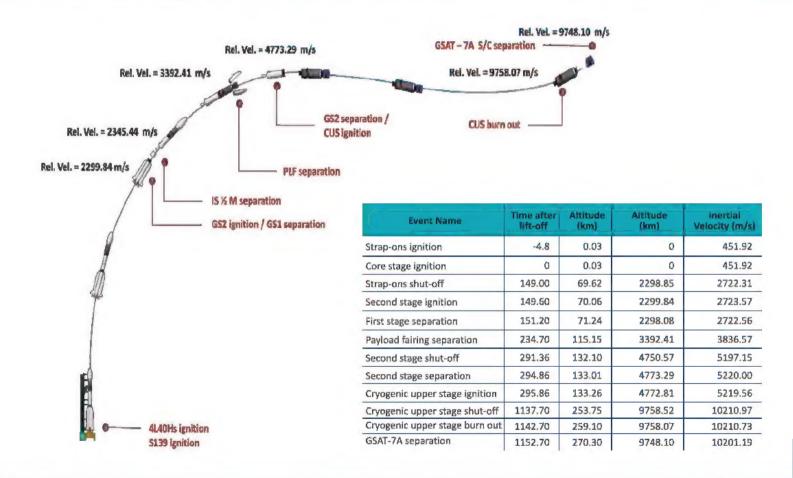
Spacecraft Power : 3.3 kW

Payload : Ku-band transponders

Mission Life : 8 Years



# GSLV-F11 Flight Sequence



# **Glimpses of Launch Vehicle and Satellite Integration**



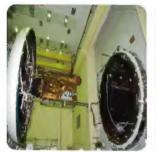






















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